

## A CHECKLIST OF CADDISFLIES (TRICHOPTERA) FROM MASSACHUSETTS<sup>1</sup>

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**ABSTRACT:** Collections of adult Trichoptera were made in the Connecticut and Hoosic River Basins, western Massachusetts, between 1974 and 1978. Of the 157 species collected, 88 represent new records for the state. A complete checklist of previously published and newly recorded species is presented, totaling 189 species.

Initial records of caddisflies from Massachusetts were first assembled by Banks (1892), who later added several species to the state list. These early collections were made primarily in the eastern part of the state, while Betten (1934) and Flint (1960) provided additional collection records for western Massachusetts. Other reported species are scattered throughout the literature, and much of the early species nomenclature has undergone change and synonymy. A current and more complete list of species is therefore needed.

From 1974 to 1978, I collected Trichoptera by light-trapping and sweep-netting along aquatic habitats in the Connecticut and Hoosic River Basins, Franklin, Hampshire, and northern Berkshire County, Massachusetts (Fig. 1). The 31 sampling sites in the study area represented diverse habitats to more completely sample the caddisfly fauna (Table 1). Most collecting sites in Franklin and Hampshire County were light-trapped at least twice, early and late summer. From 84 light-trap and 40 sweep-net collections during the 5-yr. period, approximately 40,000 adults were captured and identified. Species identifications were based on adult male specimens; all Trichoptera were preserved in 70% isopropanol and are in the author's collection. Light-trap collections of Hydroptilidae have not yet been examined.

### Checklist of Species

The list below contains 157 species collected during this survey with month(s) and site(s) of capture. Additional species will undoubtedly be reported as more extensive sampling occurs in other counties of the state. New records are indicated by an asterisk (\*); 32 species not collected during this survey but previously reported from Massachusetts are included with

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reference citation. Species not figured in Ross (1944) are followed by a reference to an illustration of the male genitalia. The classification scheme follows that of Wiggins (1977), and species and genera within families are arranged alphabetically.

#### Rhyacophilidae

- Rhyacophila acutiloba* Morse and Ross; Morse and Ross, 1971. May, June; (3,16,20,21).  
*R. atrata* Banks; Ross, 1938a. May, June; (3,8,16,20).  
*R. carolina* Banks; Schmid, 1970. June to October; (3,4,5,8,11,16,18,19,20,21).  
*R. carpenteri* Milne; Schmid, 1970. Milne 1936.  
*R. fuscula* (Walker). May to September; (2,3,5,8,9,16,18,19,21).  
*R. glaberrima* Ulmer. July, August; (13,16,20,21).  
*R. invaria* (Walker); Schmid, 1970. June, July; (19,20,21).  
 \**R. melita* Ross; Ross, 1938b. May, June; (20).  
*R. minor* Banks; Ross, 1956 (as *minora*). May, June; (8,16,20).  
*R. nigrita* Banks; Schmid, 1970. May, June; (20,21,28).  
*R. torva* Hagen; Schmid, 1970. Denning 1948b.  
*R. vibox* Milne, June; (19).  
 \**R. vuphipes* Milne; Schmid, 1970. August; (2)

#### Glossosomatidae

- Agapetus iridis* Ross. June; (13,18)  
 \**A. pinatus* Ross; Ross, 1938b. June to August; (16,18,20,21).  
*A. rossi* Denning; Leonard and Leonard, 1949. June; (10,13).  
 \**Glossosoma lividum* (Hagen); Ross, 1956. July, August; (2,16,20).  
 \**G. nigrior* Banks; Denning, 1942 (as *Eomystra unica*). April to October; (3,10,16,17,18,20,21).  
 \**Protoptila maculata* (Hagen). June to August; (1,2,6,7,8,10,15).  
 \**P. palina* Ross. August; (7)

#### Hydroptilidae

- Agraylea multipunctata* Curtis. June to September; (1,3,6,8,15,17,18,22,24).  
 \**Dibusa angata* Ross. June; (16,20).  
 \**Orthotrichia aegerfasciella* (Chambers); Ross, 1944 (as *americana*). July; (25).

#### Philopotamidae

- \**Chimarra aterrima* Hagen. June to August; (3,7,8,13,14,16,18,19,20,24,31).  
 \**C. obscura* (Walker). June to September; (2,3,6,7,10,11,12,13,14,16,18,23,24).  
 \**C. socia* Hagen. June to August; (16,20).  
 \**Dolophilodes distinctus* (Walker); Ross, 1944 (as *trentonius*). January to December; (2,3,4,5,6,7,8,10,12,14,16,17,18,19,20,21,24).  
 \**Wormaldia moesta* (Banks); Ross, 1944 (as *Dolophilus*). May to July; (20).

#### Psychomyiidae

- \**Lype diversa* (Banks). June to August; (7,18,20,31).  
 \**Psychomyia nomada* (Ross). June to September; (2,3,7,8,10,17,18,20).

## Polycentropodidae

- \**Cernotina spicata* Ross. July; (20).  
 \**Neureclipsis crepuscularis* (Walker). June to August; (2,20,21).  
*N. timesis* Denning. Denning 1948c.  
*Nyctiophylax affinis* (Banks); Morse, 1972. June to August; (10,11,18,20,23).  
*N. moestus* Banks; Ross, 1944 (as *vestitus*). June, July; (7,18,19).  
*Phylocentropus hansonii* Root. Root 1965.  
 \**P. lucidus* (Hagen). May to August; (5,12,13,18,20,25).  
 \**P. placidus* (Banks). June to August; (7,8,11,12,18,20,23).  
 \**Polycentropus albipunctus* (Banks); Ross, 1938a. June to August; (18,20).  
 \**P. aureolus* (Banks). June; (11).  
*P. cinereus* Hagen. June to August; (3,4,5,6,7,8,9,12,16,18,20,21,24).  
*P. clinei* (Milne); Denning, 1956. Milne 1936.  
 \**P. confusus* Hagen. June to August; (3,4,7,9,18,20).  
*P. crassicornis* Walker. June, July; (13,18,19).  
 \**P. elarus* Ross. June, July; (4,5,8,19,25).  
 \**P. flavus* Banks. June, July; (8,9).  
*P. grellus* (Milne); Ross, 1938b. Milne 1936.  
 \**P. iculus* Ross; Ross, 1941a. June to August; (19,20).  
*P. interruptus* (Banks). June, July; (3,8,9,16,18,20,23).  
 \**P. maculatus* Banks. June to August; (5,7,19,20,25).  
 \**P. pixi* Ross. June; (20).  
 \**P. remotus* Banks. June to August; (5,7,17,18,20).

## Hydropsychidae

- \**Aphropsyche doringa* (Milne); Ross, 1944 (as *aprilis*). June; (19).  
 \**Cheumatopsyche campyla* Ross. June to August; (1,3,6,7,8,10,12,16,18,20,21,22,24).  
 \**C. gracilis* (Banks); Gordon, 1974. June, July; (3,9,12,13,14,20,21).  
 \**C. halima* Denning; Gordon, 1974. June to August; (4,8,12,13,14,16,18,19,20,21,24,25).  
 \**C. minuscula* (Banks). June, July; (18,20,21,23).  
*C. pasella* Ross. May to August; (1,2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,23,25).  
*C. pettiti* (Banks); Ross, 1944 (as *analisis*). June to September; (2,3,7,8,10,12,13,14,16,18,20,21,26,31).  
*C. pinaca* Ross; Gordon, 1974. June to August; (3,8,13,14,16,18,19,20,21,24).  
 \**C. wrighti* Ross; Gordon, 1974. June, July; (20).  
*Diplectrona modesta* Banks. July, August; (4,5,7,8,12,16,18,20).  
 \**Hydropsyche betteni* Ross. June to August; (3,12,16,17,18,20,26,29,31).  
 \**H. bronta* Ross. June to August; (3,12,16,17,18,20,26,30).  
*H. impula* Denning. Denning 1948a.  
 \**H. morosa* Hagen. June to August; (2,3,6,8,9,12,16,18,20,21,26).  
 \**H. phalerata* Hagen. June to August; (1,2,3,6,8,10,12,13,15,18,23).  
 \**H. recurvata* Banks. May to July; (6,20).  
 \**H. riola* Denning; Denning, 1942. May, June; (20).  
 \**H. slossonae* Banks. June to October; (3,8,16,20,21).  
 \**H. sparna* Ross. May to October; (1,2,3,4,5,7,8,9,10,12,13,14,15,16,18,19,20,24).  
 \**H. ventura* Ross; Ross, 1941a. June; (8,20).  
 \**H. walkeri* Betten and Mosely. June, July; (2,20).  
 \**Macronema zebratum* (Hagen). June to August; (2,6,10).  
*Parapsyche apicalis* (Banks); Milne and Milne, 1938. May, June; (12,20).

## Phryganeidae

- Agrypnia glacialis* Hagen, Johnson 1930.  
*A. vestita* (Walker), July, August; (10,16,20).  
*Banksiola calva* Banks; Wiggins, 1956. Banks 1943.  
*B. concatenata* (Walker); Wiggins, 1956. June; (12)  
*B. crotchii* Banks; Ross, 1944 (as *selina*). June to August; (7,10,12,18,19,20,24).  
*B. dossuaria* (Say); Wiggins, 1956. June to August; (4,5,9,13,16,18,19,20,23).  
*B. smithi* Banks; Wiggins, 1956. Banks 1951.  
*Oligostomis ocelligera* (Walker). Betten 1934.  
*O. pardalis* (Walker); Ross, 1944 (as *Eubasilissa*). Wiggins 1977.  
*Phryganea cinera* Walker. Betten 1934.  
*P. sayi* Milne. June to August; (10,18)  
*Ptilostomis angustipennis* (Hagen). Betten 1934.  
*P. ocellifera* (Walker). June to August; (3,6,7,8,9,12,13,17,18,19,24).  
*P. postica* (Walker). August; (11).  
*P. semifasciata* (Say). June to August; (7,13,16,18,20).

## Brachycentridae

- Brachycentrus numerosus* (Say). Flint 1966.  
 \**Micrasema charonis* Banks. June to August; (18,20).  
*M. rusticum* (Hagen). Denning 1948c.  
 \**M. sprulesi* Ross, 1941 a. May; (20).  
 \**M. wataga* Ross. June; (18).

## Sericostomatidae

- Agarodes distincta* Ulmer; Ross and Scott, 1974. June; (23).  
*A. grisea* Banks. June; (13,18,19).

## Odontoceridae

- Psilotreta hansonii* Denning; Denning, 1948c. June; (8).  
 \**P. frontalis* Banks. June, July; (5,12,20).  
 \**P. labida* Ross. May, June; (20).

## Molannidae

- \**Molanna blenda* Sibley, June, July; (8,13,19,20).  
 \**M. musetta* Betten. June to September; (20).  
 \**M. tryphena* Betten. June, July; (16,20).  
 \**M. uniophila* Vorhies. August; (31).

## Helicopsychidae

- \**Helicopsyche borealis* (Hagen). June to August; (2,16,17,20,21).

## Calamoceratidae

- \**Heteroplectron americanum* (Walker); Betten, 1934 (as *Ganonema nigrum*). June; (16,20).

## Leptoceridae

- \**Ceraclea ancylus* (Vorbies); Ross, 1944 (as *Athripsodes*). June, July; (20).  
 \**C. cancellata* (Betten); Ross, 1944 (as *Athripsodes*). June; (6,9,12,16,20,21).  
 \**C. excisa* (Morton); Morse, 1975. June; (20).  
 \**C. maculata* (Banks); Ross, 1944 (as *Athripsodes transversus*). June to August; (1,3,6,7,8,10,15,17,18,23,24).  
   *C. ruthae* (Flint); Morse, 1975. June to August; (3,4,9,18,20).  
 \**C. tarsipunctata* (Vorbies); Ross, 1944 (as *Athripsodes*). June to August; (1,3,4,6,7,8,10,11,12,15,16,17,18,19,20,21,23,24).  
 \**C. transversa* (Hagen); Ross, 1944 (as *Arthripsodes angustus*). June to August; (18,20,21).  
 \**Leptocerus americanus* (Banks). July; (7,16,20).  
   *Mystacides longicornis* (Linnaeus). Yamamoto and Wiggins 1964.  
   *M. sepulchralis* (Walker). June to September; (2,16,18,20,21,24).  
   *Nectopsyche albida* (Walker); Betten and Mosley, 1940. Haddock 1977.  
   *N. pavida* (Hagen); Ross, (as *Leptocella*). July; (18).  
 \**Oecetis avara* (Banks). June to August; (1,2,7,8,10,11,13,14,15,19,20,22).  
   *O. cinerascens* (Hagen). June to September; (1,2,3,7,11,12,15,16,20,21,22,23).  
 \**O. ditissa* Ross; Ross, 1966. August; (3,7,18).  
   *O. inconspicua* (Walker). June to September; (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,19,22,23,24,25).  
   *O. osteni* Milne. June to September; (7,11,20,23).  
 \**O. persimilis* (Banks). June to September; (2,3,4,6,7,8,10,13,16,18,20).  
 \**Setodes incerta* (Walker). July, August; (16,20).  
   *Trienodes aba* Milne. Ross 1944.  
   *T. ignita* (Walker). June, July; (18,20).  
 \**T. inflexa* Morse; Morse, 1971. July to September; (20)  
 \**T. injusta* (Hagen). June to August; (10,18).  
 \**T. marginata* Sibley. June, July; (13,20).  
 \**T. nox* Ross; Ross, 1941a. June to August; (18,20).  
 \**T. tarda* Milne. June, August; (7).

## Lepidostomatidae

- Lepidostoma americanum* (Banks); Ross, 1946. July, August; (7,18,20).  
 \**L. bryanti* (Banks); Leonard and Leonard, 1949. June; (8,13,19,20).  
 \**L. costalis* (Banks); Ross, 1946. August, September; (20).  
   *L. frosti* (Milne); Ross, 1946. July, August; (8,19,20).  
   *L. griseum* (Banks); Ross, 1946. Flint and Wiggins 1961.  
 \**L. latipennis* (Banks); Ross, 1946. August, September; (20,21).  
 \**L. lydia* Ross; Ross, 1939. June; (8,19).  
 \**L. ontario* Ross; Ross, 1941a. June; (13,20).  
   *L. prominens* (Banks); Ross, 1938a. Denning 1949.  
   *L. reosa* Denning; Denning, 1954. June; (20).  
   *L. sackeni* (Banks), Flint and Wiggins 1961.  
   *L. sommermanae* Ross. Flint and Wiggins 1961.  
   *L. swannanoa* Ross; Ross, 1939. April to June; (2,3,19,20,21).  
 \**L. togatum* (Hagen); Betten, 1934. June to August; (3,20).  
   *L. vernalis* (Banks). Flint and Wiggins, 1961. May to August; (13,20).

## Limnephilidae

- Anobolia bimaculata* (Walker); Ross, 1944 (as *Limnephilus*). July, August; (16,19,20).  
 \**A. consocia* (Walker); Ross, 1944 (as *Limnephilus*). August; (18).  
 \**A. sordida* Hagen; Ross, 1944 (as *Limnephilus*). June to August; (13,27).  
 \**Apatania incerta* (Banks); Ross, 1938a (as *Apatelia*). April, May; (20,21).  
*Asynarchus montanus* Banks; Banks, 1920 (as *Anobolia curta*). Banks 1920.  
*Frenesia difficilis* (Walker); Betten and Mosely, 1940. November; (16,20).  
*F. missa* (Milne). November; (20).  
*Glyphopsyche irrorata* (Fabricius). May; (20).  
*Goera calcarata* Banks; Ross, 1947. June to August; (4,18,20,21).  
*G. fuscula* Banks; Ross, 1947. Flint 1960.  
*G. stylata* Ross. June; (8).  
*Hydatophylax argus* (Harris); Betten, 1934. June; (3,16,20).  
*Ironoquia parvula* (Banks); Schmid, 1951. Flint 1958.  
*I. punctatissima* (Walker). August, September; (16,18,20).  
*Lenarchus crassus* Banks; Ross and Merkley, 1952. Banks 1920.  
*Limnephilus indivisus* Walker. June to August; (2,12,20).  
 \**L. moestus* Banks. June, July; (6,9,13,14,16,20).  
*L. ornatus* Banks. Ross 1944.  
 \**L. rhombicus* (Linnaeus). August; (13).  
*L. sericeus* (Say). August, September; (13,20).  
*L. submonilifer* Walker. June to September; (8).  
*Nemotaulius hostilis* (Hagen); Betten, 1934 (as *Glyphotaelius*). June to August; (8,11,20).  
*Neophylax concinnus* McLachlan; Ross, 1944 (as *autumnus*). September; (20,21).  
*N. consimilis* Betten; Betten, 1934. August to October; (16,20).  
 \**N. fuscus* Banks. September, October; (20).  
*N. nactus* Denning; Denning, 1941. Denning 1948c.  
 \**N. oligius* Ross; Ross, 1938b. August, September; (20).  
 \**Onocosmoecus quadrinotatus* (Banks); Banks, 1943 (as *Dicosmoecus*). September; (20).  
*Platycentropus indistinctus* (Walker); Betten, 1934. Banks 1943.  
*P. radiatus* (Say). June to September; (7,16,18,19,20,23).  
 \**Pseudostenophylax sparsus* (Banks); Ross, 1944 (as *Drusinus virginicus*). June to August (8,9,12,13,19,20).  
*P. uniformis* (Betten); Ross, 1944 (as *Drusinus*). June, July; (12,13,19).  
*Pycnopsyche aglona* Ross; Betten, 1950. Ross 1941b.  
*P. circularis* (Provancher); Betten, 1950. September; (20).  
*P. divergens* (Walker); Betten, 1950. August; (13).  
*P. gentilis* (McLachlan); Betten, 1950. August to October; (3,13,16,20).  
*P. guttifer* (Walker). August to October; (3,7,16,18,20,21,24).  
 \**P. lepida* (Hagen). July to September; (16,18,20).  
 \**P. limbata* (McLachlan); Betten, 1950. September; (20).  
*P. luculenta* (Betten). August, September; (16,20).  
*P. scabripennis* (Rambur); Betten, 1950. July to September; (2,3,6,7,8,13,16,18,20,21).  
*P. subfasciata* (Say). Betten 1950.

Table 1. List of sampling sites and their location in the study area.

Franklin County	Hampshire County (Cont.)
1 Connecticut River, Sunderland and Whately.	16 West Branch, Westfield River, Huntington.
2 Deerfield River, Deerfield and Greenfield.	17 Mill River, Amherst and Hadley.
3 Sawmill River, Leverett.	18 Cushman Brook, Amherst.
4 Spaulding Brook, Leverett.	19 Amethyst Brook, Pelham.
5 Roaring Brook, Leverett.	20 Factory Brook, Middlefield.
6 Sugarloaf Brook, South Deerfield	21 Walker Brook, Chester
7 Atkins Reservoir, Shutesbury.	22 Lake Warner, Hadley.
8 Sunderland Reservoir, Sunderland	23 Arcadia Lake, Belchertown.
9 Lake Wyola, Shutesbury	24 Factory Hollow Pond, Amherst.
10 Cranberry Pond, Sunderland	25 Echo Hill Pond, Amherst.
11 Leverett Pond, Leverett.	
12 North Mountain Road Pond, Sunderland.	<b>Berkshire County</b>
13 Sunderland Hatchery, Sunderland	26 Green River, Hancock.
14 Mohawk Brook, Sunderland	27 Notch Brook, North Adams.
	28 Anonymous brook, Savoy.
<b>Hampshire County</b>	29 Bogastow Brook, Millis.
15 Connecticut River, Northampton and Hatfield.	30 Mauserts Pond, Williamstown.
	31 Bog Pond, Savoy.

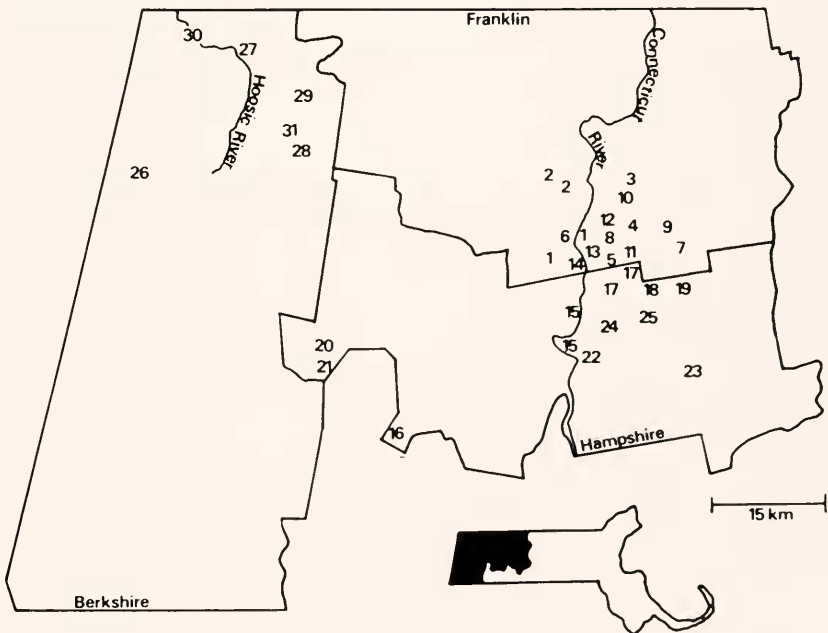


Fig. 1. Location of sampling stations for Trichoptera in western Massachusetts.

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